L Number	Hits	Search Text	DB	Time stamp
9	14	(("6471420") or ("5774357") or ("5940798") or ("4545065") or ("6385582") or ("6243675") or	USPAT;	2002/12/10 10:21
		("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO; JPO	
		("6463412") or ("5963892")).PN.		
10	8	((("6471420") or ("5774357") or ("5940798") or ("4545065") or ("6385582") or ("6243675") or	USPAT;	2002/12/10 10:51
		("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO; JPO	
		("6463412") or ("5963892")).PN.) and (radio or wireless or cellular or cell)		
13	0	((("6471420") or ("5774357") or ("5940798") or ("4545065") or ("6385582") or ("6243675") or	USPAT;	2002/12/10
		("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO; JPO	10:52
li		(*6463412*) or (*5963892*)).PN.) and 623/9.ccls.		
14	0	((("6471420") or ("5774357") or ("5940798") or ("4545065") or ("6385582") or ("6243675") or	USPAT;	2002/12/10
		("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO; JPO	10:52
		("6463412") or ("5963892")).PN.) and 623/1.23-9.ccls.		
15	0	((("6471420") or ("5774357") or ("5940798") or ("4545065") or ("6385582") or ("6243675") or	USPAT;	2002/12/10
		("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO; JPO	10:54
		("6463412") or ("5963892")).PN.) and 623/9-926.ccls.		
16	734	(recogni\$4) and 623/1.23-9.ccls.	USPAT;	2002/12/10
			EPO; JPO	10:54
17	1106	recogni\$4 and 623/9-926.ccls.	USPAT;	2002/12/10
			EPO; JPO	10:54
18	24	(((recogni\$4) and 623/1.23-9.ccls.) or (recogni\$4 and 623/9-926.ccls.)) and (speech or voice)	USPAT;	2002/12/10
		same recogni\$4	EPO; JPO	10:59
19	2	((((recogni\$4) and 623/1.23-9.ccls.) or (recogni\$4 and 623/9-926.ccls.)) and (speech or voice)	USPAT;	2002/12/10 11:00
		same recogni\$4) and 704/.ccls.	EPO; JPO	
20	1	((recogni\$4) and 623/1.23-9.ccls.) and (detect\$4 same ((artificial or synthetic) with speech))	USPAT;	2002/12/10 11:02
			EPO; JPO	
21	1	(recogni\$4 and 623/9-926.ccls.) and (detect\$4 same ((artificial or synthetic) with speech))	USPAT;	2002/12/10 11:02
	_		EPO; JPO	
22	1	(((recogni\$4) and 623/1.23-9.ccls.) and (detect\$4 same ((artificial or synthetic) with speech))) or	USPAT;	2002/12/10 11:02
		((recogni\$4 and 623/9-926.ccls.) and (detect\$4 same ((artificial or synthetic) with speech)))	EPO; JPO	2002 (12 (10
25	506	704/.ccls. and (picture or camera or image or photo or photograph) and synthe\$8 with speech	USPAT;	2002/12/10
			EPO: JPO	12:55
26	154	(704/.ccls. and (picture or camera or image or photo or photograph) and synthe\$8 with speech) and	USPAT;	13:37
		(education or training)	EPO; JPO	2002/12/10
27	76	((704/.ccls. and (picture or camera or image or photo or photograph) and synthe\$8 with speech)	USPAT; EPO: JPO	13:37
		and (education or training)) and feedback	USPAT:	2002/12/10 15:13
32	1	((("6471420") or ("5774357") or ("5940798") or ("4545065") or ("6385582") or ("6243675") or ("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO; JPO	2002/12/10 15:13
			Ero, JPO	
		("6463412") or ("5963892")).PN.) and reality	L	1

Search History 12/10/02 5:28:46 PM Page 1 C:\APPS\EAST\Workspaces\09673360.wsp .

33 ·	27	704/.ccls. and (virtual or augmented) with reality	USPAT;	2002/12/10
			EPO; JPO	14:48
37	24	(("6471420") or ("5774357") or ("5940798") or ("4545065") or ("6385582") or ("6243675") or	USPAT;	2002/12/10
	1	("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO: JPO	15:03
		("6463412") or ("5963892") or ("6159014") or ("6072467") or ("6047257") or ("5689618") or		
	1	("5630017") or ("5387104") or ("5302132") or ("4884972") or ("6487531") or ("6154723")).PN.		
38	19	((("6471420") or ("5774357") or ("5940798") or ("4545065") or ("6385582") or ("6243675") or	USPAT;	2002/12/10 15:10
ì	1	("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO; JPO	
		("6463412") or ("5963892") or ("6159014") or ("6072467") or ("6047257") or ("5689618") or		
	l	("5630017") or ("5387104") or ("5302132") or ("4884972") or ("6487531") or ("6154723")).PN.)		
	l	and (dialog\$4 or convers\$6)		
39	0	((("6471420") or ("5774357") or ("5940798") or ("4545065") or ("6385582") or ("6243675") or	USPAT;	2002/12/10 15:10
	1	("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO; JPO	
		("6463412") or ("5963892") or ("6159014") or ("6072467") or ("6047257") or ("5689618") or	1	
		("5630017") or ("5387104") or ("5302132") or ("4884972") or ("6487531") or ("6154723")).PN.)		
	l	and (augment\$4 with reality)		
40	9	[(USPAT;	2002/12/10 15:14
	1	("6112173") or ("5956681") or ("6133904") or ("6211870") or ("5812977") or ("5400246") or	EPO: JPO	
		("6463412") or ("5963892")).PN.) and (improv\$6 or enhanc\$4 or expand\$4 or amplifi\$6 or		
	1	enlarg\$6)		
-	45	tracheoesophageal	USPAT;	2002/12/07
	1		EPO: JPO	15:37
-	0	tracheophageal	USPAT;	2002/12/07
			EPO; JPO	15:37
-	4961	transduc\$6 with (capacitor or electrostatic)	USPAT;	2002/12/08
	1 _		EPO; JPO	09:46
-	0	(("5220610" "4916743" "5355431" "5617505" "5621850" "5630015" "4385359" "5220595"	USPAT;	2002/12/08
		"5471557" "5539861" "5539860" "5632002" "5963892" "6076061" "6243675" "6385582"	EPO; JPO	09:46
		,"5828998" "6134525" "5751904" "6188984" "6134322" "5749066" "5809462" "5864803"	1	
		"5867816" "6233555" "6233556" "5721808" "4827516" "4837828" "5278942" "5712956"	i	
	ļ	"6073096" "6076058" "6112173" "6064964" "6094476" "5956681" "5999606" "6064959"		
	ļ	"6219643" "6219643" "6246779" "4573134" "4928302" "4984275" "5384833" "5577164"		
		"5671329" "5758318").pn.) and (transduc\$6 with (capacitor or electrostatic))		
	5		USPAT;	2002/12/09
] -] 3	(transaucijo with (capacitor or electrostatic)) and 7047.ccis.	EPO: JPO	10:00
	3	(transduc\$6 with (capacitor or electrostatic)) and 704/.ccls. and (image or picture or display or	USPAT;	2002/12/08
•	3	representation) not 6233545.pn.	EPO; JPO	10:15
L		representation/not 0233343.pn.	1 200, 310	1 10:10

	30	(("5220610"	USPAT:	2002/12/08
	1	"5471557" "5539861" "5539860" "5632002" "5963892" "6076061" "6243675" "6385582"	EPO; JPO	10:15
	1	"5828998" "6134525" "5751904" "6188984" "6134322" "5749066" "5809462" "5864803"	1	i
	1	"5867816" "6233555" "6233556" "5721808" "4827516" "4837828" "5278942" "5712956"	ł	
		"6073096" "6076058" "6112173" "6064964" "6094476" "5956681" "5999606" "6064959"		ľ
		"6219643" "6219643" "6246779" "4573134" "4928302" "4984275" "5384833" "5577164"		}
		"5671329" "5758318").pn.		
) and (image or picture or display or representation)	l	
l -	27	(("5220610" "4916743" "5355431" "5617505" "5621850" "5630015" "4385359" "5220595"	USPAT;	2002/12/08
1		"5471557" "5539861" "5539860" "5632002" "5963892" "6076061" "6243675" "6385582"	EPO: JPO	10:26
1		"5828998" "6134525" "5751904" "6188984" "6134322" "5749066" "5809462" "5864803"		
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	1	"6073096" "6076058" "6112173" "6064964" "6094476" "5956681" "5999606" "6064959"		
	1	"6219643" "6219643" "6246779" "4573134" "4928302" "4984275" "5384833" "5577164"		
		"5671329" "5758318").pn.	l	
) and 704/.ccls. and (image or picture or display or representation) not 6233545.pn.	ŀ	
1 -	581	704/.ccls. and (image or icon or atavar) with (voice or speech) not 6233545.pn.	USPAT:	2002/12/08
1		, , , , , , , , , , , , , , , , , , ,	EPO: JPO	10:27
i _	194	(704/.ccls. and (image or icon or atavar) with (voice or speech) not 6233545.pn.) and	USPAT;	2002/12/08
1		704/231-257.ccls.	EPO: JPO	10:28
i _	83	(704/.ccls. and (image or icon or atavar) with (voice or speech) not 6233545.pn.) and	USPAT:	2002/12/08
		704/251-257.ccls.	EPO: JPO	10:28
_	49	("5220610" "4916743" "5355431" "5617505" "5621850" "5630015" "4385359" "5220595"	USPAT:	2002/12/09
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I		"6073096" "6076058" "6112173" "6064964" "6094476" "5956681" "5999606" "6064959"		
		"6219643" "6219643" "6246779" "4573134" "4928302" "4984275" "5384833" "5577164"	ļ	
		"5671329" "5758318").pn.		
		· · · · · · · · · · · · · · · · · · ·		
-	3	(home adj automation) with (setup or set-up) and (screen or image or display)	USPAT;	2002/12/09
1	l .	,	EPO: JPO	10:02
.	9	(home adj automation) with (setup or set-up or train\$4 or learn\$4) and (screen or image or display)	USPAT:	2002/12/09
	[The state of the s	EPO: JPO	10:04
l -	25	(home adj automation) and (setup or set-up or train\$4 or learn\$4) with (screen or image or display	USPAT:	2002/12/09
		or icon)	EPO: JPO	10:15
-	23	((home adj automation) and (setup or set-up or train\$4 or learn\$4) with (screen or image or display	USPAT:	2002/12/09
1		or icon)) not ((home adj automation) with (setup or set-up or train\$4 or learn\$4) and (screen or	EPO; JPO	10:13
		image or display))		

Search History 12/10/02 5:28:46 PM Page 3 C:\APPS\EAST\Workspaces\09673360.wsp

-	24	((home adj automation) and (setup or set-up or train\$4 or learn\$4) with (screen or image or display	USPAT;	2002/12/09
ł		or icon)) and (voice or speech)	EPO; JPO	10:14
-	25	1 (4	USPAT;	2002/12/09
1		or icon)) and (voice or speech or command)	EPO; JPO	10:15
-	24	(USPAT;	2002/12/09
1		or icon)) and (voice or speech or spoken)	EPO; JPO	10:15
j -	11	(home adj automation) and (setup or set-up or train\$4 or learn\$4) with (picture or diagram or	USPAT;	2002/12/09
		layout or screen or image or display or icon) and ((spoken or speech or voice) same (understan\$4 or recogni\$4))	ЕРО; ЈРО	10:17
-	0	((home adj automation) and (setup or set-up or train\$4 or learn\$4) with (picture or diagram or	USPAT;	2002/12/09
		layout or screen or image or display or icon) and ((spoken or speech or voice) same (understan\$4 or	EPO; JPO	10:17
	1	recogni\$4))) not (((home adj automation) and (setup or set-up or train\$4 or learn\$4) with (screen	ļ	
		or image or display or icon)) not ((home adj automation) with (setup or set-up or train\$4 or		
		learn\$4) and (screen or image or display)))		
-	49	speech adj impediment	USPAT;	2002/12/09
			EPO; JPO	14:31
-	131	704/.ccls. and (speech adj impediment or lisp or (voice or speech) with disorder)	USPAT;	2002/12/09
			EPO; JPO	14:35
-	115	(704/.ccls. and (speech adj impediment or lisp or (voice or speech) with disorder)) not (speech adj	USPAT;	2002/12/09
		impediment)	EPO; JPO	14:35
-	16	(704/.ccls. and (speech adj impediment or lisp or (voice or speech) with disorder)) and (speech adj	USPAT;	2002/12/09
		impediment)	EPO: JPO	14:35
-	18	(("5220610" "4916743" "5355431" "5617505" "5621850" "5630015" "4385359" "5220595"	USPAT;	2002/12/09
		"5471557" "5539861" "5539860" "5632002" "5963892" "6076061" "6243675" "6385582"	EPO; JPO	16:07
		"5828998" "6134525" "5751904" "6188984" "6134322" "5749066" "5809462" "5864803"		
	1	"5867816" "6233555" "6233556" "5721808" "4827516" "4837828" "5278942" "5712956"		
		"6073096" "6076058" "6112173" "6064964" "6094476" "5956681" "5999606" "6064959"		
	1	"6219643" "6219643" "6246779" "4573134" "4928302" "4984275" "5384833" "5577164"		
		"5671329" "5758318").pn.		
-) and network		
-	9	(("5220610" "4916743" "5355431" "5617505" "5621850" "5630015" "4385359" "5220595"	USPAT;	2002/12/09
		"5471557" "5539861" "5539860" "5632002" "5963892" "6076061" "6243675" "6385582"	EPO; JPO	16:36
		"5828998" "6134525" "5751904" "6188984" "6134322" "5749066" "5809462" "5864803"		
1		"5867816" "6233555" "6233556" "5721808" "4827516" "4837828" "5278942" "5712956"		
1		"6073096" "6076058" "6112173" "6064964" "6094476" "5956681" "5999606" "6064959"		
		"6219643" "6219643" "6246779" "4573134" "4928302" "4984275" "5384833" "5577164"		
		"5671329" "5758318").pn.		
	1) and network not neural adj network		

-	3	(("5220610"	USPAT:	2002/12/09
		"5471557" "5539861" "5539860" "5632002" "5963892" "6076061" "6243675" "6385582"	EPO; JPO	16:38
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		"5867816" "6233555" "6233556" "5721808" "4827516" "4837828" "5278942" "5712956"		
		"6073096" "6076058" "6112173" "6064964" "6094476" "5956681" "5999606" "6064959"		
		"6219643" "6219643" "6246779" "4573134" "4928302" "4984275" "5384833" "5577164"		
	1	"5671329" "5758318").pn.		
	1) and (camera or photograph\$4)		
-	2	(("5220610" "4916743" "5355431" "5617505" "5621850" "5630015" "4385359" "5220595"	USPAT;	2002/12/09
l		"5471557" "5539861" "5539860" "5632002" "5963892" "6076061" "6243675" "6385582"	EPO; JPO	17:00
	1	*5828998" "6134525" "5751904" "6188984" "6134322" "5749066" "5809462" "5864803"	1	
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		"6073096" "6076058" "6112173" "6064964" "6094476" "5956681" "5999606" "6064959"		
		"6219643" "6219643" "6246779" "4573134" "4928302" "4984275" "5384833" "5577164"	ı	-
		"5671329" "5758318").pn.	İ	
) and (camera or photograph\$4) and transform\$4		
-	1	(("5220610" "4916743" "5355431" "5617505" "5621850" "5630015" "4385359" "5220595"	USPAT;	2002/12/09
İ	1	"5471557" "5539861" "5539860" "5632002" "5963892" "6076061" "6243675" "6385582"	EPO; JPO	17:01
	l	"5828998" "6134525" "5751904" "6188984" "6134322" "5749066" "5809462" "5864803"		
		"5867816" "6233555" "6233556" "5721808" "4827516" "4837828" "5278942" "5712956"		
		"6073096" "6076058" "6112173" "6064964" "6094476" "5956681" "5999606" "6064959"		İ
		"6219643" "6219643" "6246779" "4573134" "4928302" "4984275" "5384833" "5577164"		
		"5671329" "5758318").pn.	1	
) and (camera or photograph\$4) with transform\$4	1	
-	21309	(image or photo or camera or photograph\$4) with transform\$4	USPAT;	2002/12/09
	1		EPO; JPO	17:20
-	86	((image or photo or camera or photograph\$4) with transform\$4) and 704/.ccls.	USPAT;	2002/12/09
			EPO, JPO	17:22
l -	11	(((image or photo or camera or photograph\$4) with transform\$4) and 704/.ccls.) and photo\$10	USPAT;	2002/12/10 12:51
			EPO, JPO	

Nolan, Daniel

Tuesday, December 10, 2002 1:24 PM Nolan, Daniel RE: Quick query on Application 6,471,420 Jones, Scott Fo: Subject:

Daniel,

As Michael O'Neill mentioned, I'm in the video game art as well. Therefore, you may want to contact an examiner in Class 434 that may handle the feature you describe.

Regards,

Scott Jones

Nolan, Daniel Tuesday, December 10, 2002 12:44 PM O'Neill, Mike; Jones, Scott; Mendoza, Robert FW: Quick query on Application 6,471,420 ----Original Message-

Daniel A. Nolan, Examiner (703)305-1368

I am an examiner in speech/voice recognition & processing.

This case has the (very minor) feature where generally a speech recognizer <u>differentiates between words</u> spoken naturally and artificially, through a prosthesis or appliance. I have done a thoraugh search of my art, NPL and Japanese patents without having something read on this. Could you advise, or confirm that the feature may be allowable?

ig Cigo

Daniel A. Nolan. Examiner

(703)305-1368

Nolan, Daniel

Tuesday, December 10, 2002 1:17 PM Notan, Daniel McDermott, Corrine RE: Quick query on Application 6,471,420 Willse, David Cc: Subject: From: Sent:

I don't know of anything off hand, but you may want to check class 381, such as subclass 70, if you haven't already done so. The closest things in this area are 623/9; 600/23-24 (speech therapy); and 128/207.14+.

----Original Message----From: Nolan, Daniel

Tuesday, December 10, 2002 12:38 PM McDemodt, Corne Issbells, David: Willes, David: Preblic, Paul; Snow, Bruce RE: Quick query on Application 6,471,420

Thanks: Anybody?

Daniel A. Nolan. Examiner

(703)305-1368

Subject: RE: Quick query on Application 6,471,420 ----Original Message----From: McDermott, Cornie
Sent: Tuesday, December 10, 2002 12:37 PM
To: Nolan, Daniel

I do not know the art well enough to comment on that. You should probably talk to one of my primaries, David Isabella, David Willse, Paul Prebilic or Bruce Snow, for some help.

---Original Message-

Nolan, Daniel Tuesday, December 10, 2002 10:50 AM

McDermott, Corrine McDermott, Corrine Mr. Quick query on Application 6,471,420 Subject:

---Original Message-

n: Notan, Daniel
Tuesday, December 10, 2002 10:49 AM
Corr..ncdernot@uspto.gov.
Quft query on Application 6,471,420 To: 'con.n Subject:

Greetings:

I am an examiner in speech/voice recognition & processing.

This case has the (very minor) feature where generally a speech recognizer <u>differentiates between</u> words spoken naturally and artificially, through a prosthesis or appliance. I have done a thorough search of my art, NPL and Japanese patents without having something read on this. Could you advise, or confirm that the feature may be allowable?

ë Ü

Daniel A. Nolan, Examiner (703)305-1368

Nolan, Daniel

Ý.

O'Neill, Mike Tuesday, December 10, 2002 1:06 PM Nolan, Daniel, Jones, Scott; Mendoza, Robert RE: Quick query on Application 6,471,420 To: Subject: Sent:

This is a video game art examiner. I don't focus on speech recognition. We might have such an application mentioned in a few patents in either 463/1,35,36,39. You might want to check in class 434 with the examiners that do those applications because of the linguistics subclasses in class 434.

From: Noán, Dariel Hossage—
Roan: Noán, Daniel 10, 2002 12:44 PM Sent: Tusday, December 10, 2002 12:44 PM To: O'Neil, Mirc, Dores, Scott; Mendoza, Robert Subject: FW: Quick query on Application 6,471,420

Daniel A. Nolan, Examiner (703)305-1368

Greetings:

I am an examiner in speech/voice recognition & processing.

This case has the (very minor) feature where generally a speech recognizer <u>differentiates between words spoken naturally and artificially</u>, through a prosthesis or appliance.

I have done a thorough search of my art, NPL and Japanese patents without having something read on this. Could you advise, or confirm that the feature may be allowable?

Cigo

Daniel A. Nolan, Examiner (703)305-1368

m

Nolan, Daniel

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Prebilic, Paul Tuesday, December 10, 2002 1:05 PM Nolan, Daniel RE: Quick query on Application 6,471,420 To: Subject: From:

I am not aware of anything like this in Class 623 or elsewhere.

—-Original Message——
Sent: Nolan, Daniel
Sent: Tuesday, December 10, 2002 12:38 PM
Tri McDemott, Corrine
Cc: Isabella, David: Willse, David; Prebilic, Paul; Snow, Bruce
Subject: RE: Quick query on Application 6,471,420

Thanks: Anybody?

Daniel A. Nolan, Examiner (703)305-1368

——Original Message——
Prom:
McDemott, Cornine
Sent: Tuesday, December 10, 2002 12:37 PM
To: Nolan, Daniel
Subject:
RE: Quick query on Application 6,471,420

I do not know the art well enough to comment on that. You should probably talk to one of my primaries, David Isabella, David Willse, Paul Prebilic or Bruce Snow, for some help.

——Criginal Message——
From:
Nolan, Daniel
Sent:
Tuesday, December 10, 2002 10:50 AM
To:
McDermott, Corrine
Subject:
FW: Quick query on Application 6,471,420

----Original Message---

Nolan, Daniel Tuesday, December 10, 2002 10:49 AM 'corr.mcdermott@uspto.gov' Quick query on Application 6,471,420 To: Subject:

Greetings:

I am an examiner in speech/voice recognition & processing.

This case has the (very minor) feature where generally a speech recognizer <u>differentiates between</u> wor<u>ds spoken naturally and artificially</u>, through a prosthesis or appliance.

I have done a thorough search of my art, NPL and Japanese patents without having something read on this. Could you advise, or confirm that the feature may be allowable?

Cigo Cigo

Daniel A. Nolan. Examiner

(703)305-1368

S

Nolan, Daniel

Snow, Bruce Tuesday, December 10, 2002 1:04 PM Nolan, Daniel RE: Quick query on Application 6,471,420 To: Subject: I have never done anything like that. Dave Willse would be the best one to talk with.

From: Sent: To: Cc: Subject:

Notar, Daniel
Tuesday, December 10, 2002 12:38 PM
#CDemort, Corrie
Isabela, David; Wille, David; Preblic, Paul; Snow, Bruce
RE: Quick query on Application 6,471,420

Thanks: Anybody?

Daniel A. Nolan, Examiner (703)305-1368

—Original Message—
From: McDernoctt, Cornine
Sent: Tuesday, December 10, 2002 12:37 PM
To: Nolan, Daniel
Subject: RE: Quick query on Application 6,471,420

I do not know the art well enough to comment on that. You should probably talk to one of my primaries, David Isabella, David Willse, Paul Prebilic or Bruce Snow, for some help.

—Original Message----Natan, Daniel
Sent: Tuesday, December 10, 2002 10:50 AM
To: McDemott, Corrine
Subject: FW: Quick query on Application 6,471,420

Greetings:

I am an examiner in speech/voice recognition & processing.

This case has the (very minor) feature where generally a speech recognizer <u>differentiates between</u> words spoken naturally and artificially, through a prosthesis or appliance. I have done a thorough search of my art, NPL and Japanese patents without having something read on this. Could you advise, or confirm that the feature may be allowable?

Daniel A. Nolan, Examiner (703)305-1368